

Table S3. Pearson correlation matrix based on the physical and physicochemical variables, minerals, total phenolics, and antioxidant activity of the pulp of *S. megalanthus* dragon fruit throughout its development.

	L* (Pu)	SS ¹	C (Pu)	Mass	LD (Pu)	TD (Pu)	K (Pu)	Mg (Pu)	S (Pu)	Mn (Pu)	Zn (Pu)	Fe (Pu)	TPC(Pu)	PC (Pu)	β-car(Pu)	TA
L* (Pu)	-----															
SS ¹	-0.91* ²	-----														
C (Pu)	0.93*	-0.77	-----													
Mass	-0.80	0.96**	-0.59	-----												
LD (Pu)	-0.85	0.96**	-0.78	0.92*	-----											
TD (Pu)	-0.92*	0.98**	-0.83	0.93*	0.98*	-----										
K (Pu)	-0.86	-0.93*	0.76	-0.90*	-0.91	-0.96*	-----									
Mg (Pu)	0.53	0.81	0.35	-0.90*	-0.83	-0.80	0.82	-----								
S (Pu)	0.86	-0.85	0.87	-0.75	-0.88*	-0.92*	0.95*	0.68	-----							
Mn (Pu)	-0.94*	0.75	-0.95*	0.50	0.69	0.77	-0.68	-0.24	-0.74	-----						
Zn (Pu)	-0.75	0.46	-0.90*	0.22	0.45	0.52	-0.42	0.08	-0.60	0.91*	-----					
Fe (Pu)	-0.83	0.60	-0.95**	0.38	0.61	0.65	-0.54	-0.09	-0.69	0.94*	0.98**	-----				
TPC (Pu)	-0.93*	0.96**	-0.75	0.93*	0.87	0.92*	-0.87	-0.69	-0.76	0.80	0.41	0.61*	-----			
PC (Pu)	-0.79	0.51	-0.88*	0.24	0.47	0.54	-0.41	0.061	-0.55	0.94*	0.98**	0.97*	0.57	-----		
β-car (Pu)	-0.71	0.92*	-0.56	0.95	0.93*	0.92*	-0.93	-0.968**	-0.83	0.47	0.15	0.32	0.82	0.17		
TA	0.87	-0.99***	0.72	-0.98	-0.97**	-0.98**	0.94*	0.86	-0.84	-0.68	-0.38	-0.53	-0.94*	-0.43	-0.95*	-----

¹ SS, Soluble Solids; LD, Longitudinal Diameter; TD, Transversal Diameter; TPC, Total Phenolic Compounds; CF, Antioxidant Activity by the Phosphomolybdenum Complex Method; β-car, β-carotene/linoleic acid; TA, Titratable Acidity. Pulp (Pu). ² *p<0,05; **p<0,01; ***p<0,001.